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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,818	12/05/2001	Su-Yueh Hsieh Hung	3380-0148P	2821
2292	7590	08/30/2005		EXAMINER
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EDWARDS JR, TIMOTHY	
			ART UNIT	PAPER NUMBER
			2635	

DATE MAILED: 08/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/001,818	HSIEH HUNG, SU-YUEH	
	<b>Examiner</b>	<b>Art Unit</b>	
	Timothy Edwards, Jr.	2635	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 23 June 2005.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-5 and 7 is/are rejected.
- 7) Claim(s) 6 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____.   |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____.  | 6) <input type="checkbox"/> Other: _____.                                   |

**DETAILED ACTION**

***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "radio receiving set" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5,7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Song '493, and further in view of Besson et al '854.

Considering claim 1, Song discloses a heart beat analysis device and method comprising, a) an infrared heartbeat detector (see col 6, lines 64-67), the infrared heartbeat detector detecting a pulsation signal is not specifically recited by Song. However, one of ordinary skill in the art would readily recognize heart beat rate is measured by means of light by measuring the intensity light passing through the tissue of a person (i.e. fingertip or ear lobe). The intensity varies in pace with the heartbeat, which is due to the amount of blood in the tissue which varies because of the heartbeat. Besson teaches in col 24, line 47 to col 25, line 10 the use of infrared detection to detect a pulsation signal of the blood. Therefore, it would have been obvious to one of ordinary skill in the art to use an infrared detection means to detect a pulsation signal in the Song system as taught by Besson because Song expresses the desire to detect heart beat using photoelectric devices and both references are concern with the detecting the heartbeat rate; b) a signal processing circuitry, the signal being converted and amplified

into a processed signal by the processing circuitry (see Song fig 3, items 33, 34, and 35); c) a radio frequency wireless signal transmission circuitry, the processed signal being transmitted by the radio frequency wireless signal transmission circuitry (see col 6, lines 52-63); d) wireless receiving circuitry, the processed signal being received by a wireless receiving circuitry via a radio frequency and being converted into a heart beat rate (see col 4, lines 8-18); e) a display for displaying the heartbeat rate (see col 5, lines 1-5).

Considering claim 2, Song does not specifically recite the infrared heartbeat detector is at least one of a reflection and a penetration infrared detector. However, one of ordinary skill in the art would readily recognize heart beat rate is measured by means of light by measuring the intensity light passing through the tissue of a person (i.e. fingertip or ear lobe). The intensity varies in pace with the heartbeat, which is due to the amount of blood in the tissue which varies because of the heartbeat. Besson teaches in col 24, line 67 to col 25, line 4 the use of infrared detection to detect a pulsation signal of the blood by reflection measurement (also see fig 4a). Obviousness is as cited in claim 1, part (a).

Considering claims 3,4, Song discloses the limitations of these claims see col 3, lines 11-16.

Considering claim 5, Song does not specifically recite the infrared heartbeat detector, the signal processing circuitry and the radio frequency wireless signal transmission

circuitry are placed only on the finger of the user. Besson teaches the limitation of this claim in col 20, lines 52-59 and fig 4a. Obviousness is as cited in claim 1, part (a).

Considering claim 7, Song discloses the limitation of this claim see col 2, lines 1-6 and the abstract.

***Allowable Subject Matter***

3. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chen '253 teaches a receiving means for processing a heartbeat signal and allowing the user to listen to music.

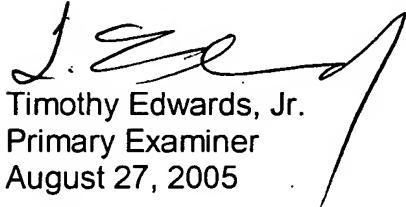
5. Any inquiry concerning this communication should be directed to Examiner Timothy Edwards at telephone number (571) 272-3067. The examiner can normally be reached on Tuesday-Friday, 8:00 a.m.-6:00 p.m. The examiner cannot be reached on Mondays.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik, can be reached at (571) 272-3068.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-4700, Mon-Fri., 8:30 a.m.-5:00 p.m.

Any response to this action should be fax to:

(571), 273-8300 (for formal communications intended for entry)



Timothy Edwards, Jr.  
Primary Examiner  
August 27, 2005